Status of claims as of September 18, 2006

1-8. cancelled

9. (currently amended) The method of claim 127 wherein the joint between two mating chambers provides an essentially linear connection.

10. (currently amended) The method of claim 127 wherein said string has a horizontal plane curve factor of at least than 0.57 degrees per foot of length.

11. cancelled

12. (currently amended) A ~~In the~~ method of manually installing arch shape cross section leaching chambers having sidewalls with a multiplicity of perforations for passage of water, for forming an interconnected string of chambers within a trench within soil, wherein the trench defines the path of said string and has a width sufficient to receive only a single string of chambers connected end-to-end, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate at a load transferring joint, comprising the steps of: ~~wherein the process of installation includes~~ removing a chamber from a stack of nested chambers; engaging the first end of the chamber with the second end of a chamber previously placed~~installed~~ within the trench; ~~while standing in the trench,~~ and lowering the second end of the chamber into the trench while the installer stands in the trench and manipulates the chamber, ~~the improvement which comprises: making~~ wherein the lengths of the~~each~~ chambers are in the range of 4 feet to ~~less than about~~ 5.7 feet.

13. (previously presented) The method of claim 12 wherein the chamber length is between about 4 and 5 feet.

14 cancelled

15. (currently amended) An arch shape cross section molded thermoplastic leaching chamber having sidewalls with a multiplicity of horizontal slot perforations for passage of water and a length in the range of about 4 to about 5 feet, a length to width aspect ratio between 1.2 and 2.0, a weight per foot

of about 2.7 to 3 pounds, and a flexibility factor of greater than about 0.2 inch; wherein a first end of the chamber resists removal from a nested stack of like chambers when only a second end of the chamber is lifted from the stack, such that both ends must be lifted to accomplish said removal.

16. (original) The chamber of claim 15 having a width of about 3 feet.

17. (currently amended) A continuous curve arch shape cross section molded thermoplastic corrugated leaching chamber which comprises:
interior and exterior surfaces which are substantially free of ribs;
opposing sidewalls having a multiplicity of horizontal slot perforations; and,
opposing first and second ends shaped for interconnecting with like chambers;
wherein the chamber has a length in the range 4 to 5 feet and a flexibility factor of at least 0.2 inch; wherein a first end of the chamber resists removal from a nested stack of like chambers when only a second end of the chamber is lifted from the stack, such that both ends must be lifted to accomplish said removal.

18. cancelled

19. (previously presented) The method of claim 12 wherein each chamber has a flexibility factor of greater than about 0.2 inch.

20. (previously presented) The method of claim 19 wherein each chamber has a flexibility factor of greater than about 1 inch.

21. (previously presented) The method of claim 12 wherein each chamber has a length to width aspect ratio between 1.2 and 2.0, a weight per foot of about 2.7 to 3 pounds, and a flexibility factor of greater than about 0.2 inch.

22. (previously presented) The method of claim 12 wherein each chamber comprises a continuous curve arch shape cross section corrugated interior and exterior surfaces which are substantially free of ribs.

23. (previously presented) The method of claim 22 wherein each chamber has a length to width aspect ratio between 1.2 and 2.0, a weight per foot of about 2.7 to 3 pounds.

24. (previously presented) The method of claim 22 wherein each chamber has a flexibility factor of greater than about 1 inch.

25. (previously presented) The chamber of claim 15 wherein the flexibility factor is greater than about 1 inch.